

Notice to Comply

Application No.

09/659,983

Examiner

Regina M. DeBerry

Applicant(s)

MELOEN ET AL.

Art Unit

1647

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/659,983A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 J Variable Length Sequence(s) 3 contain amino acids which represented more than one residue.

Please present the maximum number of each residue having variable length and indicate in the (b) feature section that some may be missing.
<220> - <223>
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 J Use of "Artificial" (NEW RULES) Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
Valid response is Artificial Sequence.
- 12 Use of <220>Feature (NEW RULES) Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

RECEIVED

MAY 17 2001

TECH CENTER 1600/2900

1647

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/659,983A DATE: 05/03/2001
 TIME: 12:50:25

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\05032001\I659983A.raw

Does Not Comply
 Corrected Diskette Needed

3 <110> APPLICANT: Meloen, Robert Hans
 4 Oonk, Hendrica Berendina
 6 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or Medical
 7 Preparation, a Method to Immunise Animals Against the Hormone LHRH, and Analogs
 8 of the LHRH Tandem Repeat Peptide and their Use as Vaccine
 10 <130> FILE REFERENCE: 2183-4518US
 12 <140> CURRENT APPLICATION NUMBER: 09/659,983A
 13 <141> CURRENT FILING DATE: 2000-09-12
 15 <150> PRIOR APPLICATION NUMBER: US 09/274,048
 16 <151> PRIOR FILING DATE: 1999-03-22
 18 <150> PRIOR APPLICATION NUMBER: US 08/981,557
 19 <151> PRIOR FILING DATE: 1995-06-07
 21 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223
 22 <151> PRIOR FILING DATE: 1996-06-06
 24 <150> PRIOR APPLICATION NUMBER: US 08/447,298
 25 <151> PRIOR FILING DATE: 1995-06-07
 27 <150> PRIOR APPLICATION NUMBER: US 08/476,013
 28 <151> PRIOR FILING DATE: 1995-06-07
 30 <160> NUMBER OF SEQ ID NOS: 13
 32 <170> SOFTWARE: PatentIn version 3.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 10
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Sus scrofa
 39 <220> FEATURE:
 40 <221> NAME/KEY: PEPTIDE
 41 <222> LOCATION: (1)..(1)
 42 <223> OTHER INFORMATION: X=pyroglutamic acid
 45 <220> FEATURE:
 46 <221> NAME/KEY: PEPTIDE
 47 <222> LOCATION: (10)..(10)
 48 <223> OTHER INFORMATION: X=Gly-NH2
 51 <400> SEQUENCE: 1
 53 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
 54 1 5 10
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 10
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Homo sapiens
 61 <220> FEATURE:
 62 <221> NAME/KEY: PEPTIDE
 63 <222> LOCATION: (1)..(1)
 64 <223> OTHER INFORMATION: X=pyroglutamic acid
 67 <220> FEATURE:
 68 <221> NAME/KEY: PEPTIDE
 69 <222> LOCATION: (10)..(10)
 70 <223> OTHER INFORMATION: X=Gly-NH2

RAW SEQUENCE LISTING

DATE: 05/03/2001

PATENT APPLICATION: US/09/659,983A

TIME: 12:50:25

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05032001\I659983A.raw

73 <400> SEQUENCE: 2
 75 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa
 76 1 5 10
 78 <210> SEQ ID NO: 3
 79 <211> LENGTH: 21
 80 <212> TYPE: PRT
 C--> 81 <213> ORGANISM: artificial *see item 11 on Ena Summary Sheet*
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
 85 GnRH/ LHRH
 87 <220> FEATURE:
 88 <221> NAME/KEY: PEPTIDE
 89 <222> LOCATION: (1)..(1)
 90 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more addi
 91 tional amino acid
 94 <220> FEATURE:
 95 <221> NAME/KEY: PEPTIDE
 96 <222> LOCATION: (3)..(3)
 97 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
 100 <220> FEATURE:
 101 <221> NAME/KEY: PEPTIDE
 102 <222> LOCATION: (11)..(11)
 103 <223> OTHER INFORMATION: X=direct bond or a spacer group between Gly at position 10 and Gl *nothing else*
 104 n at position 1
 107 <220> FEATURE:
 108 <221> NAME/KEY: PEPTIDE
 109 <222> LOCATION: (14)..(14)
 110 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
 113 <220> FEATURE:
 114 <221> NAME/KEY: PEPTIDE
 115 <222> LOCATION: (21)..(21)
 116 <223> OTHER INFORMATION: X=Gly-NH2 or Gly with attached tail of one or more amino acids
 119 <220> FEATURE:
 120 <221> NAME/KEY: VARIANT
 121 <222> LOCATION: (10)..(20)
 122 <223> OTHER INFORMATION: variable repeat sequence <10-20 *see item 6 on Ena Summary Sheet*
 125 <400> SEQUENCE: 3
 W--> 127 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly Xaa Gln His Xaa Ser Tyr
 128 1 5 10 15
 W--> 130 Gly Leu Arg Pro Xaa
 131 20
 133 <210> SEQ ID NO: 4
 134 <211> LENGTH: 21
 135 <212> TYPE: PRT
 C--> 136 <213> ORGANISM: artificial *item 11*
 138 <220> FEATURE:
 139 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
 140 GnRH/ LHRH
 142 <220> FEATURE:

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/659,983A

DATE: 05/03/2001
 TIME: 12:50:25

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\05032001\I659983A.raw

```

143 <221> NAME/KEY: PEPTIDE
144 <222> LOCATION: (1)..(1)
145 <223> OTHER INFORMATION: X=pyroglutamic acid
148 <220> FEATURE:
149 <221> NAME/KEY: PEPTIDE
150 <222> LOCATION: (6)..(6)
151 <223> OTHER INFORMATION: X=D-Lys
154 <220> FEATURE:
155 <221> NAME/KEY: PEPTIDE
156 <222> LOCATION: (11)..(11)
157 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
160 <220> FEATURE:
161 <221> NAME/KEY: PEPTIDE
162 <222> LOCATION: (16)..(16)
163 <223> OTHER INFORMATION: X=D-Lys
166 <220> FEATURE:
167 <221> NAME/KEY: PEPTIDE
168 <222> LOCATION: (21)..(21)
169 <223> OTHER INFORMATION: X=Cys-NH2
172 <400> SEQUENCE: 4
W--> 174 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa
      175 1          5          10          15
W--> 177 Leu Arg Pro Gly Xaa
      178          20
180 <210> SEQ ID NO: 5
181 <211> LENGTH: 21
182 <212> TYPE: PRT
C--> 183 <213> ORGANISM: artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
187   GnRH/ LHRH
189 <220> FEATURE:
190 <221> NAME/KEY: PEPTIDE
191 <222> LOCATION: (1)..(1)
192 <223> OTHER INFORMATION: X=pyroglutamic acid
195 <220> FEATURE:
196 <221> NAME/KEY: PEPTIDE
197 <222> LOCATION: (4)..(4)
198 <223> OTHER INFORMATION: X=amino acid substitution
201 <220> FEATURE:
202 <221> NAME/KEY: PEPTIDE
203 <222> LOCATION: (6)..(6)
204 <223> OTHER INFORMATION: X=D-Lys
207 <220> FEATURE:
208 <221> NAME/KEY: PEPTIDE
209 <222> LOCATION: (11)..(11)
210 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
213 <220> FEATURE:
214 <221> NAME/KEY: PEPTIDE

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/659,983A

DATE: 05/03/2001
 TIME: 12:50:25

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\05032001\I659983A.raw

```

215 <222> LOCATION: (14)..(14)
216 <223> OTHER INFORMATION: X=amino acid substitution
219 <220> FEATURE:
220 <221> NAME/KEY: PEPTIDE
221 <222> LOCATION: (16)..(16)
222 <223> OTHER INFORMATION: X=D-Lys
225 <220> FEATURE:
226 <221> NAME/KEY: PEPTIDE
227 <222> LOCATION: (21)..(21)
228 <223> OTHER INFORMATION: X=Cys-NH2
231 <400> SEQUENCE: 5
W--> 233 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa
      234 1 5 10 15
W--> 236 Leu Arg Pro Gly Xaa
      237 20
239 <210> SEQ ID NO: 6
240 <211> LENGTH: 21
241 <212> TYPE: PRT
C--> 242 <213> ORGANISM: artificial
244 <220> FEATURE:
245 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
246 GnRH/ LHRH
248 <220> FEATURE:
249 <221> NAME/KEY: PEPTIDE
250 <222> LOCATION: (1)..(1)
251 <223> OTHER INFORMATION: X=pyroglutamic acid
254 <220> FEATURE:
255 <221> NAME/KEY: PEPTIDE
256 <222> LOCATION: (6)..(6)
257 <223> OTHER INFORMATION: X=D-Lys
260 <220> FEATURE:
261 <221> NAME/KEY: PEPTIDE
262 <222> LOCATION: (8)..(8)
263 <223> OTHER INFORMATION: X=amino acid substitution
266 <220> FEATURE:
267 <221> NAME/KEY: PEPTIDE
268 <222> LOCATION: (11)..(11)
269 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
272 <220> FEATURE:
273 <221> NAME/KEY: PEPTIDE
274 <222> LOCATION: (16)..(16)
275 <223> OTHER INFORMATION: X=D-Lys
278 <220> FEATURE:
279 <221> NAME/KEY: PEPTIDE
280 <222> LOCATION: (18)..(18)
281 <223> OTHER INFORMATION: X=amino acid substitution
284 <220> FEATURE:
285 <221> NAME/KEY: PEPTIDE
286 <222> LOCATION: (21)..(21)

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/659,983A

DATE: 05/03/2001
TIME: 12:50:25

Input Set : A:\PTO.txt
Output Set: N:\CRF3\05032001\I659983A.raw

287 <223> OTHER INFORMATION: X=Cys-NH2
290 <400> SEQUENCE: 6
W--> 292 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa
293 1 5 10 15
W--> 295 Leu Xaa Pro Gly Xaa
296 20
298 <210> SEQ ID NO: 7
299 <211> LENGTH: 21
300 <212> TYPE: PRT
C--> 301 <213> ORGANISM: artificial
303 <220> FEATURE:
304 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
305 GnRH/ LHRH
307 <220> FEATURE:
308 <221> NAME/KEY: PEPTIDE
309 <222> LOCATION: (1)..(1)
310 <223> OTHER INFORMATION: X=pyroglutamic acid
313 <220> FEATURE:
314 <221> NAME/KEY: PEPTIDE
315 <222> LOCATION: (6)..(6)
316 <223> OTHER INFORMATION: X=D-Lys
319 <220> FEATURE:
320 <221> NAME/KEY: PEPTIDE
321 <222> LOCATION: (10)..(10)
322 <223> OTHER INFORMATION: X=amino acid substitution
325 <220> FEATURE:
326 <221> NAME/KEY: PEPTIDE
327 <222> LOCATION: (11)..(11)
328 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
331 <220> FEATURE:
332 <221> NAME/KEY: PEPTIDE
333 <222> LOCATION: (20)..(20)
334 <223> OTHER INFORMATION: X=amino acid substitution
337 <220> FEATURE:
338 <221> NAME/KEY: PEPTIDE
339 <222> LOCATION: (21)..(21)
340 <223> OTHER INFORMATION: X=Cys-NH2
343 <400> SEQUENCE: 7
W--> 345 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr Xaa
346 1 5 10 15
W--> 348 Leu Arg Pro Xaa Xaa
349 20
351 <210> SEQ ID NO: 8
352 <211> LENGTH: 42
353 <212> TYPE: PRT
C--> 354 <213> ORGANISM: artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms
358 GnRH/ LHRH

what about Xaa
at location 16?

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/659,983A

DATE: 05/03/2001
TIME: 12:50:26

Input Set : A:\PTO.txt
Output Set: N:\CRF3\05032001\I659983A.raw

L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:242 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:354 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:428 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:475 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:522 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:581 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:640 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13